



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

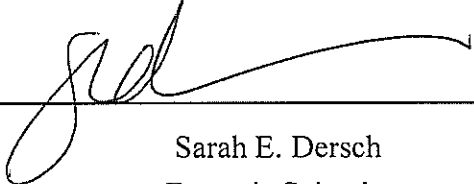
INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010654
CERTIFICATION DATE: July 23, 2014
DATE RECERTIFICATION DUE: January 19, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

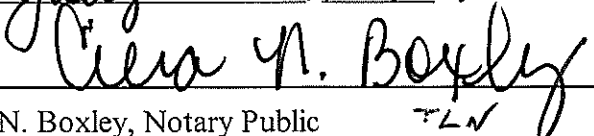
The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.



Sarah E. Dersch
Forensic Scientist

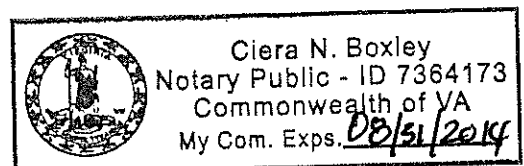
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 24th day of
July, 2014 by Sarah E. Dersch



Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



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INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010654 Worksheet Start Date 7/23/2014
Location Dahlgren
Address 17497 Dahlgren Rd Building 232, Dahlgren VA 22448
DFS Technician Sarah Dersch License No. 24178

☐ Laboratory

☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 758 Reference Barometer (mm HG) 759
Reference Barometer(RB)Serial # 009111 RB Calibration Due 5/19/2015

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.301
0.300	0.299	0.290	0.307	Sample 2	0.300
Precision		sample min	sample max	Sample 3	0.300
0.001		0.300	0.301		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.100	0.097	0.103	Sample 2	0.099
Precision		sample min	sample max	Sample 3	0.099
0		0.099	0.099		

Dry gas standard Lot No. (with tank no.) AG332301-11

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010654

Certification Date

7/23/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.249	0.241	0.256	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.249
0.002		0.249	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.150	0.145	0.154	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

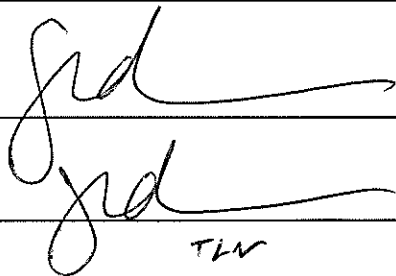
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

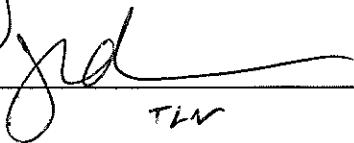
DFS Technician



Date

7/24/14

Issuing Analyst

 TLN

Date

7/24/14

Intox EC/1R-II: Certification

Department of Forensic Science

Serial Number: 010654 Test Number: 225

Test Date: 07/23/2014 Test Time: 13:05 EDT

Technician Initials: SED

Dry Gas Target: 0.249

Lot Number: 1611425014-04 Exp Date: 07/05/2016

Tank Pressure: 875 psi Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:05
BLK	0.000	13:06
CHK	0.251	13:07
BLK	0.000	13:09
CHK	0.250	13:09
BLK	0.000	13:11
CHK	0.249	13:12
BLK	0.000	13:13

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-11: Certification

SED

Department of Forensic Science

Serial Number: 010654 Test Number: 226
Test Date: 07/23/2014 Test Time: 13:15 EDT

Technician Initials: *SED*

Dry Gas Target: 0.150

Lot Number: 0771315013-03 Exp Date: 05/01/2015

Tank Pressure: 526 psi Barometric Pressure: 758 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:15
BLK	0.000	13:16
CHK	0.149	13:17
BLK	0.000	13:18
CHK	0.149	13:19
BLK	0.000	13:20
CHK	0.149	13:21
BLK	0.000	13:22

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Sub

Intox EC/1R-11: Certification

Department of Forensic Science

Serial Number: 010654 Test Number: 227

Test Date: 07/23/2014 Test Time: 13:24 EDT

Technician Initials: SED

Dry Gas Target: 0.080

Lot Number: 0771308012-03 Exp Date: 05/01/2015

Tank Pressure: 625 psi Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:24
BLK	0.000	13:25
CHK	0.080	13:26
BLK	0.000	13:27
CHK	0.080	13:28
BLK	0.000	13:29
CHK	0.080	13:30
BLK	0.000	13:31

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-11: Certification

SED

Department of Forensic Science

Serial Number: 010654 Test Number: 228
Test Date: 07/23/2014 Test Time: 13:33 EDT

Technician Initials: *SED*

Dry Gas Target: 0.020

Lot Number: 3441302011-01 Exp Date: 01/01/2016

Tank Pressure: 590 psi Barometric Pressure: 758 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:34
BLK	0.000	13:34
CHK	0.019	13:35
BLK	0.000	13:36
CHK	0.019	13:37
BLK	0.000	13:38
CHK	0.019	13:39
BLK	0.000	13:40

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010654 Test Number: 229

Test Date: 07/23/2014 Test Time: 13:43 EDT

Dry Gas Target: 0.299

Lot Number: AG334603-03 Exp Date: 12/12/2015

Tank Pressure: 134 psi Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:44
CHK	0.301	13:45
BLK	0.000	13:46
CHK	0.300	13:47
BLK	0.000	13:49
CHK	0.300	13:49

Test Status: Success

Calibration CRC: 76AE544A

Intox EC/IR-11: Accuracy Check

7d

Department of Forensic Science

Serial Number: 010654 Test Number: 230

Test Date: 07/23/2014 Test Time: 13:52 EDT

Dry Gas Target: 0.100

Lot Number: AG332301-11 Exp Date: 11/19/2015

Tank Pressure: 1115 psi Barometric Pressure: 758 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:53
CHK	0.099	13:54
BLK	0.000	13:56
CHK	0.099	13:56
BLK	0.000	13:58
CHK	0.099	13:58

Test Status: *Success*

Calibration CRC: 76AE544A




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY DERSCH, SARAH, E		AGENCY DFS Central Lab
DFS LICENSE NUMBER 24178	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 07/23/2014
TEST EQUIPMENT NUMBER 010654		

RESULTS: TIME SAMPLE TAKEN 14:06 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE